

Beaumont Fire-Rescue Services

PERFORMANCE BENCHMARKS

404.01B

Routine Inspections, Maintenance and Documentation

Discipline: D/O
Effective: 6/1/2002
Revised: 10/5/2009
Replaces: Driver Benchmark 201

Anne Huff, Fire Chief

I. Objective

The Driver/Operator shall perform routine tests, inspections, and service functions required to assure the operational status of fire department pumpers and shall properly document his/her actions on the provided form.

II. Instructions – Procedures for Achieving the Objective

The Driver/Operator shall follow a given equipment check list (printed at the end of the benchmark) to perform routine tests, inspections, and service functions on the systems and components specified in the following list, given a fire department vehicle, and the vehicles manufacturer specifications, so that the operational status of the vehicle is verified.

The Driver/Operator shall document the routine tests, inspections, and servicing functions, given maintenance and inspection forms, so that all items are checked for operation and deficiencies are reported. The Driver/Operator is to be judged on whether or not they can successfully complete each step of the inspection and document the process.

III. Examiner's Note

The Driver/Operator will use the equipment check list at the time of the evaluation but they will not be allowed to see the actual performance evaluation sheet during the test.

IV. Preparation & Equipment

- A. Appropriate safety equipment (gloves, eye and ear protection, etc.)
- B. Fire department vehicle
- C. Tools and equipment
- D. Policies and procedures
- E. Equipment check list

V. Reference Sources

- A. IFSTA, Pumping Apparatus Driver/Operator Handbook, 2nd Edition
- B. TCFP, Performance Standards, Section 700-4.2.1, 4.2.2, 5.1.1
- C. NFPA 1002 4.2.1, 4.2.2, 5.1.1

404.01B – Routine Inspections, Maintenance and Documentation

Discipline: D/O

Name:	Officer #:
Evaluator:	Officer #:
Date:	Location:

Skill Number 1

The Driver/Operator:

(No partial points given)

Battery/Batteries

- a) Checks water level, if applicable 1.0 _____
- b) Checks tightness of terminals with appropriate hand tool 1.0 _____
- c) Inspects terminals for corrosion 1.0 _____
- d) Evaluates general condition(damage, tie downs) 1.0 _____

Braking System

- a) Air-Actuated Brakes
 - 1) Checks for leaks P/F _____
 - 2) Ensures manual or automatic purging of excess condensation P/F _____
 - 3) Confirms braking system meets adequate requirements for air pressure recovery 1.0 _____
- b) Hydraulic brakes
 - 1) Checks for leaks P/F _____
 - 2) Ensures hydraulic fluid level is within manufacturer's recommended specifications P/F _____

Fluid System

- a) Coolant System
 - 1) Checks for leaks P/F _____
 - 2) Checks condition of hoses and/or lines 1.0 _____
 - 3) Ensures coolant level is within manufacturer's recommended specifications 1.0 _____
- b) Hydraulic Fluids
 - 1) Checks for leaks P/F _____
 - 2) Ensures hydraulic fluid level was within manufacturers recommended specifications P/F _____
- c) Oil
 - 1) Checks for leaks P/F _____
 - 2) Ensures engine oil level P/F _____
 - 3) Ensures general oil pressure is within manufacturers recommended specifications 1.0 _____
 - 3) specifications P/F _____
- d) Fuel
 - 1) Verbally reports fuel gauge level 1.0 _____
 - 2) Checks for leaks P/F _____

Electrical System

a) Electrical system

- 1) Ensures charging system is operational P/F _____
- 2) Confirms gauges are functioning P/F _____
- 3) Checks ignition system by starting engine (engine oil check must be performed prior to this step) P/F _____
- 4) Ensures all vehicle lights are operational 1.0 _____
- 5) Ensures all visual and audible emergency warning devices are operational P/F _____
- b) Checks for computerized system problems P/F _____

Tires, Belts & Steering System

a) Tires

- 1) Checks condition of valve and stem 1.0 _____
- 2) Evaluates condition of tire tread P/F _____
- 3) Checks depth of tire tread 1.0 _____
- 4) Checks for damage P/F _____
- 5) Uses an air gauge, to ensure that tire air pressure was within manufacturer's recommended specifications P/F _____
- 6) Checks lug nuts for tightness, rust and missing nuts P/F _____

b) Steering system

- 1) Checks for leaks P/F _____
- 2) Ensures steering fluid was within manufacturer's recommended specifications P/F _____
- 3) Checks for "excessive play" in steering wheel 1.0 _____

c) Drive Belts

- 1) Ensures proper adjustment 1.0 _____
- 2) Checks for excessive wear and/or cracking P/F _____

Equipment and Safety

a) Tools, appliances, and equipment

- 1) Ensures required tools, appliances, and equipment are in good working order 1.0 _____

b) Verifies Safety Equipment and seat belts P/F _____

Documented needed work

a) Corrects any deficiency noted according to policies and procedures 1.0 _____

Points Possible	Passing Score	Attempt	Performance Rating (Points)	PASS	FAIL
16	12	First			
		Second			
		Third			

Skill Number 2

The Driver/Operator:

(No partial points given)

- a) Ensures water level in tank is full **P/F** _____
- b) Checks primer pump oil reservoir level, if applicable **1.0** _____
- c) Checks foam tank level, if applicable **P/F** _____
- d) Evaluates condition of the pump packing for leaking **1.0** _____
- e) Properly engages pump **P/F** _____
- f) Properly operates priming system **P/F** _____
- g) Demonstrates proper throttle operation **P/F** _____
- h) Correctly operates discharge valves **P/F** _____
- i) Correctly operates drain valves **1.0** _____
- j) Operates change-over valve (for two-stage pumps) **P/F** _____
- k) Operates pressure control device **P/F** _____
- l) Verbalizes correct procedure for providing foam, if equipped **P/F** _____
- m) Properly disengages pump **P/F** _____
- n) Ensures tightness of screws and bolts on pump panel,
using appropriate hand tools **1.0** _____
- o) Verbalizes corrective actions for system problems **1.0** _____
- p) Corrects any deficiency noted according to
policies and procedures **1.0** _____

Points Possible	Passing Score	Attempt	Performance Rating (Points)	PASS	FAIL
6	4	First			
		Second			
		Third			

Candidate Equipment Check List

Skill Number 1

Battery/Batteries

- a) Check water level, if applicable
- b) Check tightness of terminals with appropriate hand tool
- c) Inspect terminals for corrosion
- d) Evaluate general condition(damage, tie downs)

Braking System

- a) Air-Actuated Brakes
 - 1) Check for leaks
 - 2) Ensure manual or automatic purging of excess condensation
 - 3) Confirm braking system meets adequate requirements for air pressure recovery
- b) Hydraulic brakes
 - 1) Check for leaks
 - 2) Ensure hydraulic fluid level is within manufacturer's recommended specifications

Fluid System

- a) Coolant System
 - 1) Check for leaks
 - 2) Check condition of hoses and/or lines
 - 3) Ensure coolant level is within manufacturer's recommended specifications
- b) Hydraulic fluids
 - 1) Check for leaks
 - 2) Ensure hydraulic fluid level was within manufacturers recommended specifications
- c) Oil
 - 1) Check for leaks
 - 2) Ensure engine oil level
 - 3) Ensure general oil pressure is within manufacturers recommended specifications
- d) Fuel
 - 1) Verbally report fuel gauge level
 - 2) Check for leaks

Electrical System

- a) Electrical system
 - 1) Ensure charging system is operational
 - 2) Confirm gauges are functioning
 - 3) Check ignition system by starting engine (engine oil check must be performed prior to this step)
 - 4) Ensure all vehicle lights are operational
 - 5) Ensure all visual and audible emergency warning devices are operational

b) Check for computerized system problems _____

Tires, Belts & Steering System

a) Tires

1) Check condition of valve and stem _____

2) Evaluate condition of tire tread _____

3) Check depth of tire tread _____

4) Check for damage _____

5) Use an air gauge, to ensure that tire air pressure was within
manufacturer's recommended specifications _____

6) Check lug nuts for tightness, rust and missing nuts _____

b) Steering system

1) Check for leaks _____

2) Ensure steering fluid was within manufacturer's recommended
specifications _____

3) Check for "excessive play" in steering wheel _____

c) Drive Belts

1) Ensure proper adjustment _____

2) Check for excessive wear and/or cracking _____

Equipment and Safety

a) Tools, appliances, and equipment

1) Ensure required tools, appliances, and equipment are in good
working order _____

b) Verify Safety Equipment and seat belts..... _____

Documented needed work

a) Correct any deficiency noted according to policies and procedures _____

Candidate Equipment Check List

Skill Number 2

- a) Ensure water level in tank is full _____
- b) Check primer pump oil reservoir level, if applicable _____
- c) Check foam tank level, if applicable _____
- d) Evaluate condition of the pump packing for leaking _____
- e) Properly engaged pump _____
- f) Properly operated priming system _____
- g) Demonstrate proper throttle operation _____
- h) Correctly operate discharge valves..... _____
- i) Correctly operate drain valves _____
- j) Operate change-over valve (for two-stage pumps) _____
- k) Operate pressure control device _____
- l) Verbalize correct procedure for providing foam, if equipped..... _____
- m) Properly disengage pump _____
- n) Ensure tightness of screws and bolts on pump panel,
using appropriate hand tools _____
- o) Verbalize corrective actions for system problems _____
- p) Correct any deficiency noted according to
policies and procedures _____